



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

# SCIENCE

FRIDAY, NOVEMBER 14, 1919

## INDUSTRIAL RESEARCH IN SMALL ESTABLISHMENTS

### CONTENTS

#### *Industrial Research in Small Establishments:*

MORRIS E. LEEDS ..... 445

#### *The Naturalist's Place in his Community:*

W. E. ALLEN ..... 448

#### *Charles Conrad Abbott and Ernest Volk: PRO-*

FESSOR G. FREDERICK WRIGHT ..... 451

#### *Scientific Events:—*

*International Science and the War; The League of Red Cross Societies; The Tariff on Scientific Apparatus; The New York Botanical Garden; Gift to the Rockefeller Institute for Medical Research* ..... 453

*Scientific Notes and News* ..... 456

*University and Educational News* ..... 458

#### *Discussion and Correspondence:—*

*Substitutes for the Words Homozygous and Heterozygous: DR. FRANK J. KELLEY. Some Port Hudson Outcrops in Louisiana: THE LATE F. V. EMERSON* ..... 458

#### *Quotations:—*

*The Recompense of Scientific Workers* .... 460

#### *Special Articles:—*

*A Method of Assigning Weights to Original Observations: DR. LEROY D. WELD* ..... 461

#### *The American Chemical Society: DR. CHARLES*

L. PARSONS ..... 464

IN the past few years, and particularly during the war, research in connection with industry has had much consideration. Most of our large technical societies have devoted sessions to its discussion and have listened to admirable papers on the subject. I hope not to retrace the ground thus covered. In this audience the vital importance of research to our technical industries would not need arguing even if it had not been amply argued. In these discussions research has been considered as something to be carried on in large well-organized laboratories, and for that reason possible only for large companies, for associated companies managing a cooperative laboratory or for government laboratories and the like. I believe that this way of thinking of research unnecessarily restricts it, and that differently conceived its usefulness to small as well as large establishments would become evident and might result in its large extension.

The various activities covered by such titles as "Research, Development and Technical Control" are those which should be assumed by a research department in a small business. In order to avoid a cumbersome name for such a department, I want to make a plea for a definition of technical research which some of you may think degrading. Doubtless you are accustomed to thinking of research as an adventure into the realms of the absolutely unknown. A department capable of research in this sense will only be possible in a small business when that business happens to have in it a real scientist. But every technical business (and what manufacturing business is not technical?) is continually confronted with the need of more information than is possessed by its regular staff in regard to processes, characteristics of materials, etc., and if it is to develop realizes that it must find new fields for

MSS. intended for publication and books, etc., intended for review should be sent to The Editor of Science, Garrison-on-Hudson, N. Y.